

CACTUS TECHNOLOGIES Slim SATA (Half-Slim SATA) 220S Series



The Cactus Technologies Slim SATA (Half-Slim SATA) - 220S Series is a high capacity solid state flash memory product that complies with the serial ATA 2.6 standard, ATA-8 and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies Slim SATAs provide up to 128GB of formatted storage capacity.

CACTUS SLIM SATA FEATURES

- **INDUSTRY STANDARD SLIM SATA FORM FACTOR**
- **CARD CAPACITIES**
 - 4GB to 128GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
 - Serial ATA 2.6 Spec
 - ANSI ATA-8 Spec
- **3.3V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **TRACEABILITY BARCODE**
- **SMART LIFE CYCLE ANALYSIS OPTION**
- **SOLID STATE DESIGN**
- **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
- **200K HOUR MTBF**
- **2-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 240 MB/sec

Write Data Transfer Rate

up to 75 MB/sec



RELIABILITY

- Wear Leveling
- Error Checking & Correction
- Less Than 1 Error in 10^{14} Bits Read
- MTBF 200,000 Hours



ENVIRONMENTAL & POWER

Operating Temperature Range

Standard 0°C to 70°C
Extended Contact Cactus



POWER CONSUMPTION

	3.3V
Read	170mA
Write	110mA
Sleep	75mA



SHOCK & VIBRATION

Shock	3,000G
Vibration	20G peak-to-peak

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220S Series



COMMERCIAL GRADE SLIM SATA

→ INTERFACE	ANSI ATA 8 Spec; Serial ATA 2.6 Spec	
→ INTERFACE TRANSFER RATE	3.0Gb/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10%
	Sleep	75mA
	Read	170mA
→ ENVIRONMENTAL SPECIFICATION	Write	110mA
	Standard Temperature	0°C to 70°C
	Extended Temperature	Contact Cactus
	Humidity	8-95%, non-condensing
→ RELIABILITY AND MAINTENANCE	Acoustic Noise	0dB
	Vibration	20G peak to peak max.
	Shock	3000G max.
	Altitude	100,000 feet max.
	Endurance	100,000 erase cycles per block
→ CARD CAPACITY	MTBF	200,000 Hours
	Data Reliability	less than 1 Error in 10 ¹⁴ bits read
→ CARD CAPACITY	4GB to 128GB	

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